

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582506

Luminaire Tested: **HC640D010-HM63040930-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040930-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4036.4 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

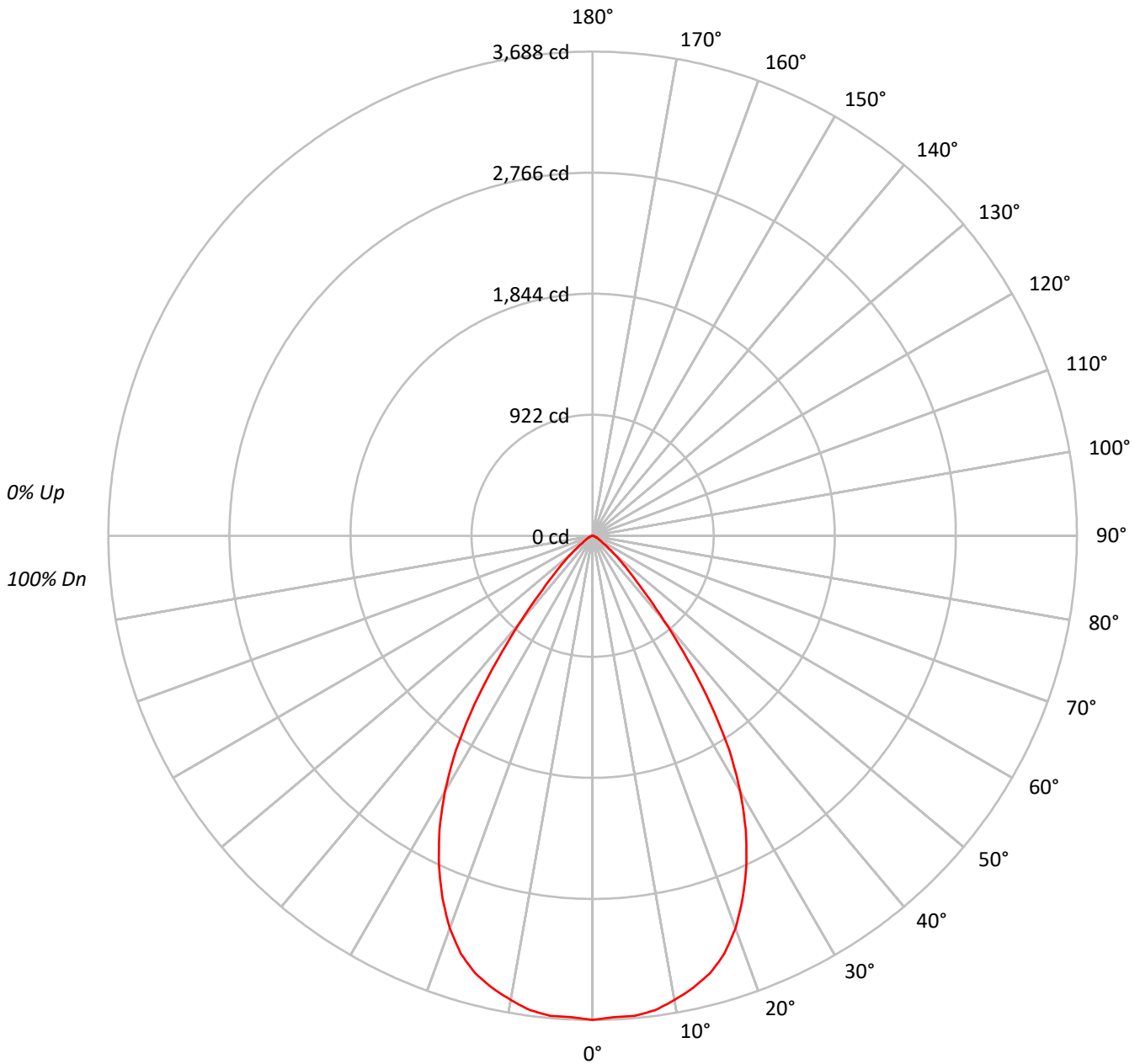
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582506

CATALOG NUMBER: HC640D010-HM63040930-61MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582506

CATALOG NUMBER: HC640D010-HM63040930-61MDH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	202160
5°	201992
10°	199885
15°	195869
20°	185539
25°	167550
30°	142332
35°	105089
40°	60778
45°	32251
50°	18225
55°	9529
60°	6249
65°	4436
70°	3190
75°	2393
80°	1799
85°	1824



TEST NUMBER: P582506

CATALOG NUMBER: HC640D010-HM63040930-61MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.8	8.6
10°-20°	965.3	23.9
20°-30°	1259.9	31.2
30°-40°	962.8	23.9
40°-50°	348.6	8.6
50°-60°	101.2	2.5
60°-70°	36.2	0.9
70°-80°	12.4	0.3
80°-90°	2.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2573.0	63.7
0°-40°	3535.7	87.6
0°-60°	3985.5	98.7
0°-90°	4036.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3688	
5°	3671	348
15°	3451	965
25°	2770	1260
35°	1570	963
45°	416	349
55°	100	101
65°	34	36
75°	11	12
85°	3	2
90°	0	



TEST NUMBER: P582506

CATALOG NUMBER: HC640D010-HM63040930-61MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3687.7
2.5°	3670.6
5°	3670.6
7.5°	3644.9
10°	3590.8
12.5°	3528.1
15°	3451.2
17.5°	3337.2
20°	3180.4
22.5°	2986.6
25°	2770.0
27.5°	2525.0
30°	2248.5
32.5°	1937.9
35°	1570.3
37.5°	1185.5
40°	849.3
42.5°	587.1
45°	416.0
47.5°	299.3
50°	213.7
52.5°	151.0
55°	99.7
57.5°	71.2
60°	57.0
62.5°	45.6
65°	34.2
67.5°	28.5
70°	19.9
72.5°	14.2
75°	11.3
77.5°	8.6
80°	5.7
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)